

HAMON

THERMAL EUROPE

S E R V I C E



Actions on natural draft CT



Actions on mechanical draft CT



NDCT with flue gas injection



Diagnosis

Unknown conditions in your cooling tower can prove costly. Cooling towers face a constant assault from a long list of enemies and events including corrosion, erosion, day-to-day wear & tear, scaling, vibration, climate fluctuations etc. The thermal capacity of a cooling tower is dependent on the correct mixing of circulating water and fresh ambient air. Shortcomings in the management of either of these media can have a significant impact on thermal efficiency. In order to make sure that your cooling tower is operating at its optimum level, our teams of experts can perform and interpret all necessary analysis:

- Technical: thermal - aerolic - acoustic
- Environmental constraints
- Economical balance
- Safety

Drift Eliminators

- Mechanical Cleaning (to avoid the use of chemicals)
- Prevention of Legionnaires Disease
- Avoid gasp or holes
- Increase efficiency
- Selection of most appropriate type (wave of cellular)

Heat Exchange Media

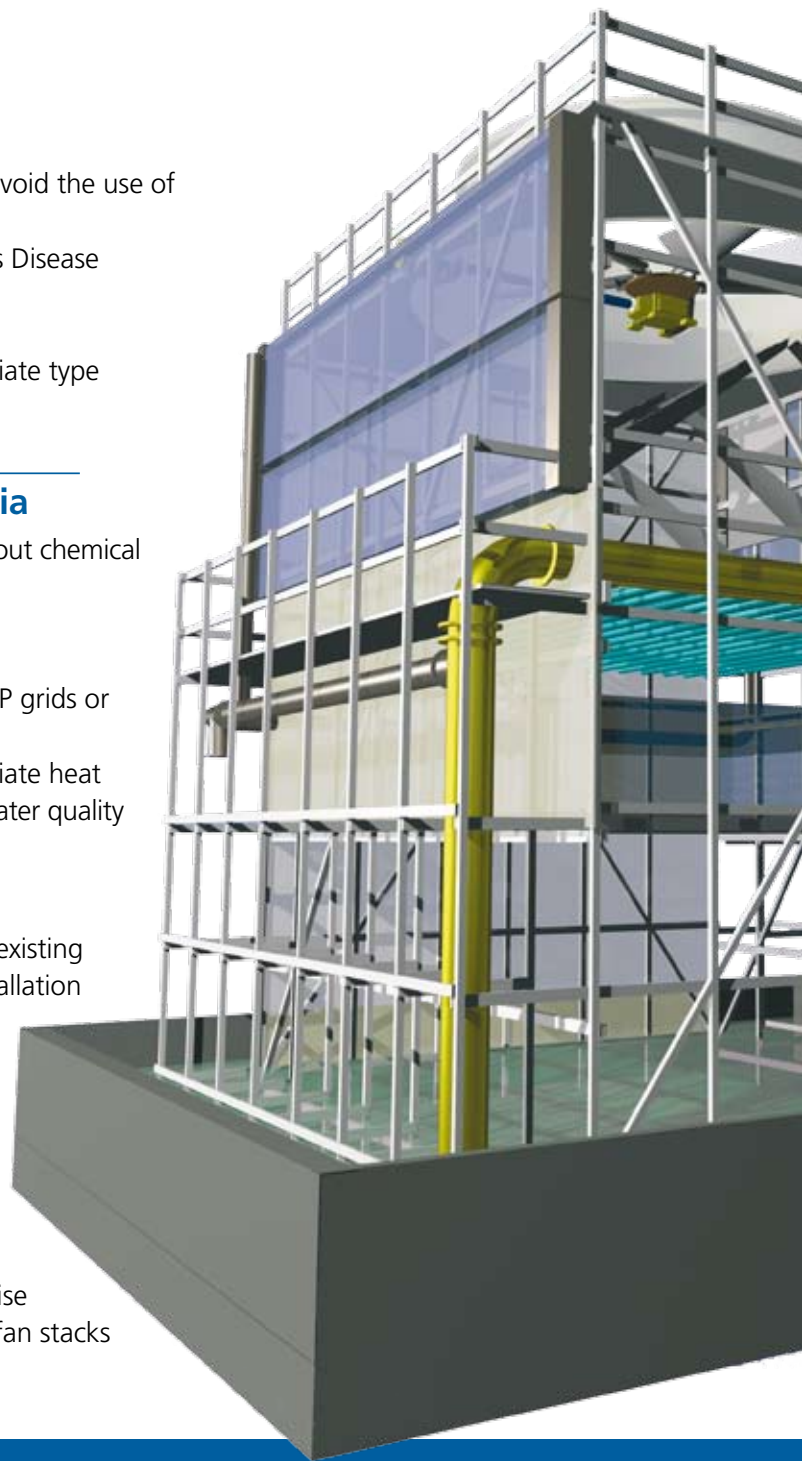
- Mechanical cleaning (without chemical – double expected life)
- Partial or full replacement
- Increase efficiency
- Replace A/C sheets with PP grids or plastic film fill
- Selection of most appropriate heat exchange media for the water quality

Air Inlet Louvres

- Modification of design of existing tower for subsequent installation of louvres
- Addition of louvres or screens to prevent water loss and legionella

Noise Attenuation

- Baffles in the air inlet - noise attenuators integrated in fan stacks
- Slanted sheets in basin

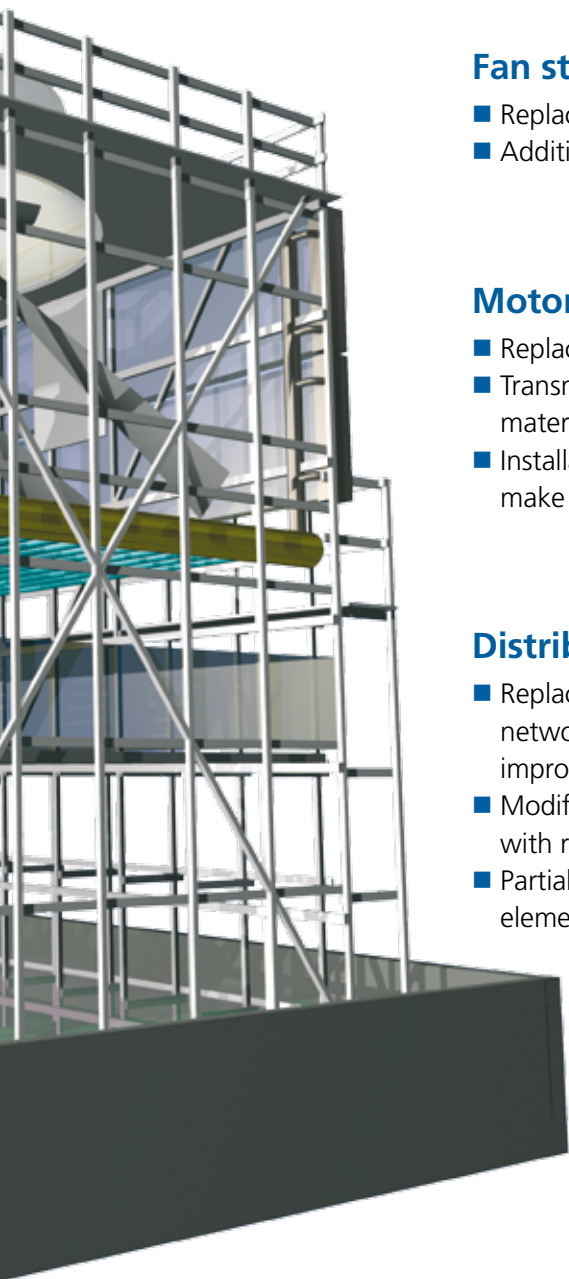


Maintenance, Maintenance Contracts

Cooling towers are often the most neglected part of your process equipment. Regular inspection and maintenance is the first step to ensuring its availability and reliability, as well as prolonging equipment life, thus delaying new capital investment.

Regular thorough cleaning is also essential for the prevention of Legionnaires Disease because the presence of corrosion, scaling and biofilm are known to adversely affect the proliferation of the bacteria.

Our team can help you schedule your preventative maintenance plan as well as offer you a maintenance contract.



Fan stacks

- Replacement of concrete or wooden stacks by FRP
- Addition of diffusers to reduce the energy consumption

Motor / Fan Group

- Replacement of fan blades or adjustment of pitch angle
- Transmission shaft: replacement of steel with composite materials or of a bearing shaft with one in one piece
- Installation of walkways above the drift eliminator to make access to the motor/fan group safe and easier

Distribution

- Replacement of a distribution network with flumes by a network with tubes if the water treatment has been improved. Replacement of wooden flumes by FRP ones
- Modification of the network to facilitate the cleaning with removable tube ends.
- Partial or complete repair of an existing AC by PVC elements

Structure

- Partial or complete replacement (whatever the material)
- Replacement of primary and secondary beams
- Partial or replacement of structural fixations
- Removal and replacement of upper part of cell
- Replacement of roof and casing
- Design of guide plans for civil works



Repair, Refurbishment, Upgrade, Spare Parts

As soon as the diagnosis has been completed, we analyse the economical feasibility of the intervention. We would then prepare and submit proposals for repairs, partial or full refurbishment or upgrade of your cooling tower in order to prolong the operational life and/or to improve performance. We can and do act at all levels.

Any component can be replaced by an identical part or if obsolete, by compatible new materials with improved features. The Hamon Spare Parts centre in Paris (or the office in your Country) services our traditional commercial channels, which remain at your disposal for spare parts.

Hamon manufactures its own products (fan stacks, film fills, drift eliminator and water distribution components) and supply all other spare parts that you may require.

Service

All industries are constantly searching for improvement potentials in their process and production. Our service teams can help you to get the most from your cooling tower and

- to ensure its availability
- to prolong equipment service life, delaying new capital investment
- to reduce operating costs and ensure the optimum level of performance
- to reduce costly down time due to equipment failures
- to ensure a safe operating, environmental and working conditions

Our team

Consists of specialised staff led by experienced managers with a solid technical background, who

- Have the comprehension and experience to act as a reliable advisor at any stage of your project
- Have a deep knowledge of the safety rules in all activity sectors (chemical, petrochemical, power plants...) and is VCA certified (or Country specific equivalent)
- Have a full understanding of environmental, concerns and challenges
- Have the capacity to perform in very short times during programmed shutdowns

Hamon network



BELGIUM

HAMON THERMAL EUROPE (BE)
Axisparc A
Rue Emile Francqui, 2
B-1435 Mont-Saint-Guibert
Tel: +32(0)10 39 05 00
Fax +32(0)10 39 05 01
info.hteb@hamon.com

FRANCE

HAMON THERMAL EUROPE (FR)
Perspective Seine
84, rue Charles Michels
Bâtiment C
93284 Saint-Denis
Tel: +33 (1) 55 87 78 78
Fax: +33 (1) 55 87 78 79
info.htef@hamon.com

ITALY

HAMON THERMAL EUROPE - Italian Branch
Via G. Durando, 38
20158 Milano
Tel.:+39 02 39325888
Fax: +39 02 39316046
info.htei@hamon.com

GERMANY

HAMON THERMAL GERMANY GmbH
Alte Wittener Strasse 30
44803 BOCHUM
Postfach 1106
44711 Bochum
Tel: +49 (234) 93550
Fax: +49 (234) 9355111
info.htg@hamon.com

UNITED KINGDOM

HAMON UK LTD
Units 1 & 2, Ropery Park
Alfred Street
HU3 2DF Hull
Tel: +44 (0) 1482.787.767
Fax: +44 (0) 1482.706.151
info.huk@hamon.com

